

FIG. 1A  
(PRIOR ART)

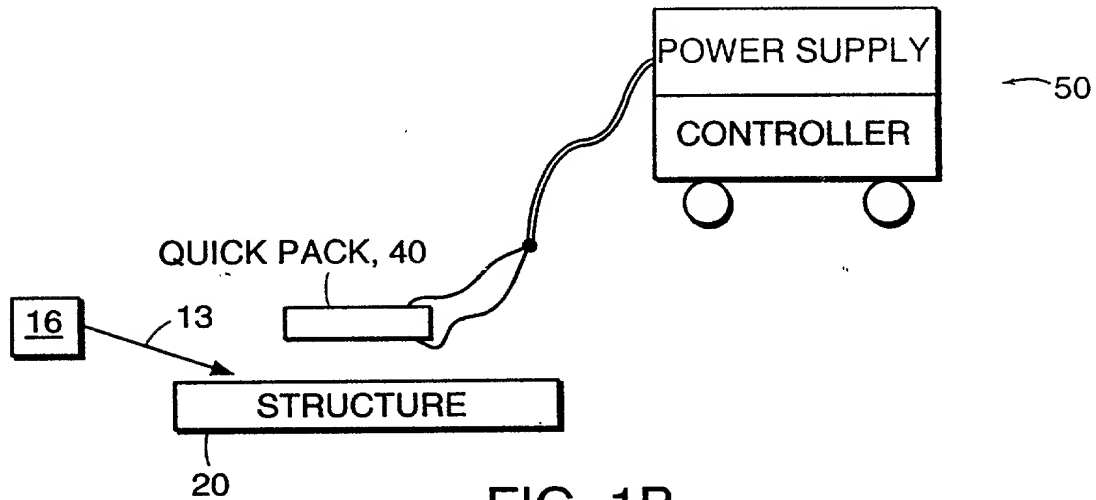


FIG. 1B

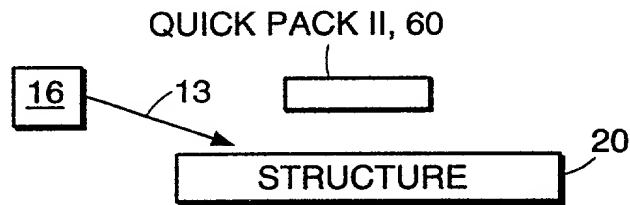


FIG. 1C

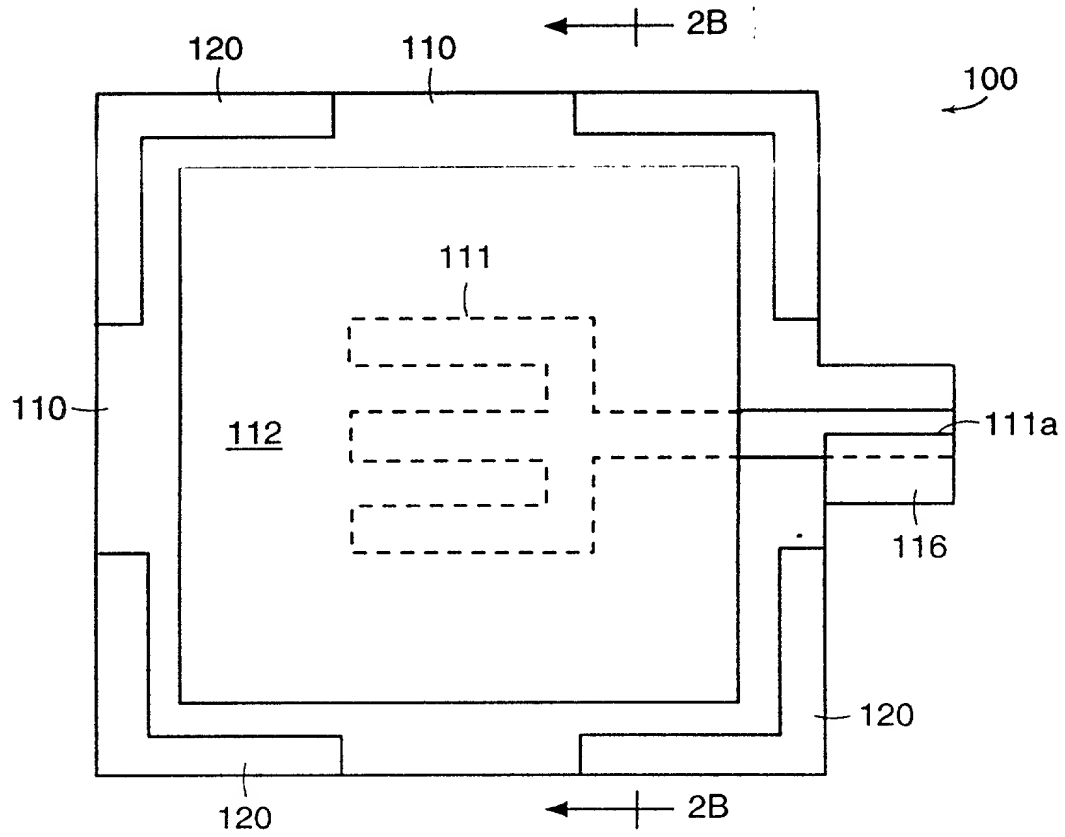


FIG. 2A

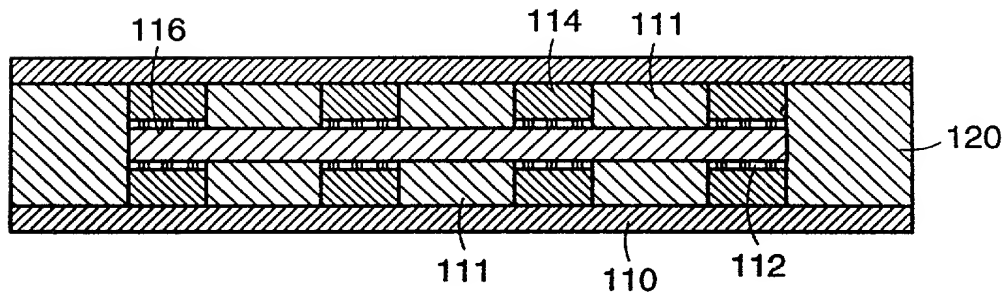


FIG. 2B

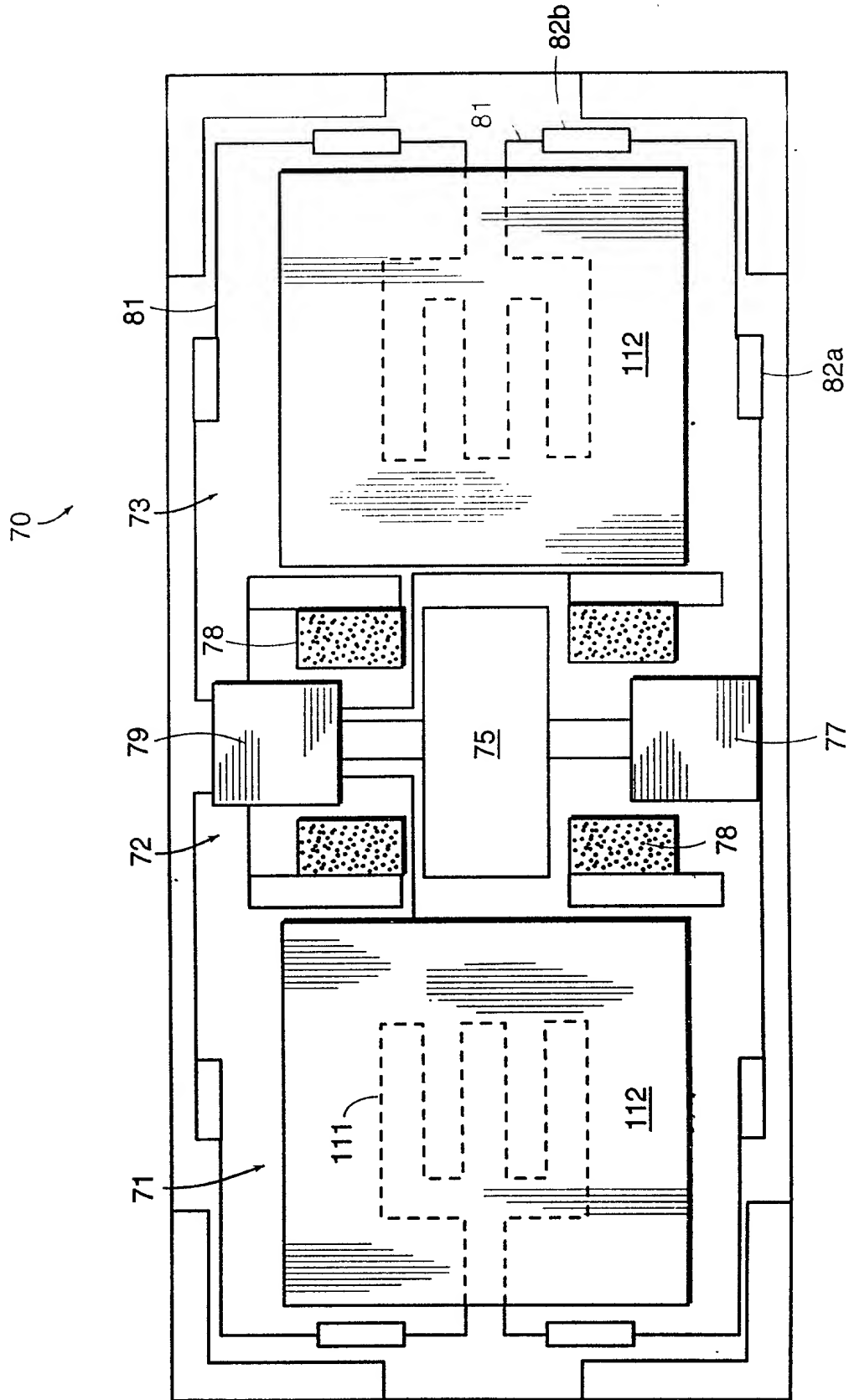


FIG. 2C

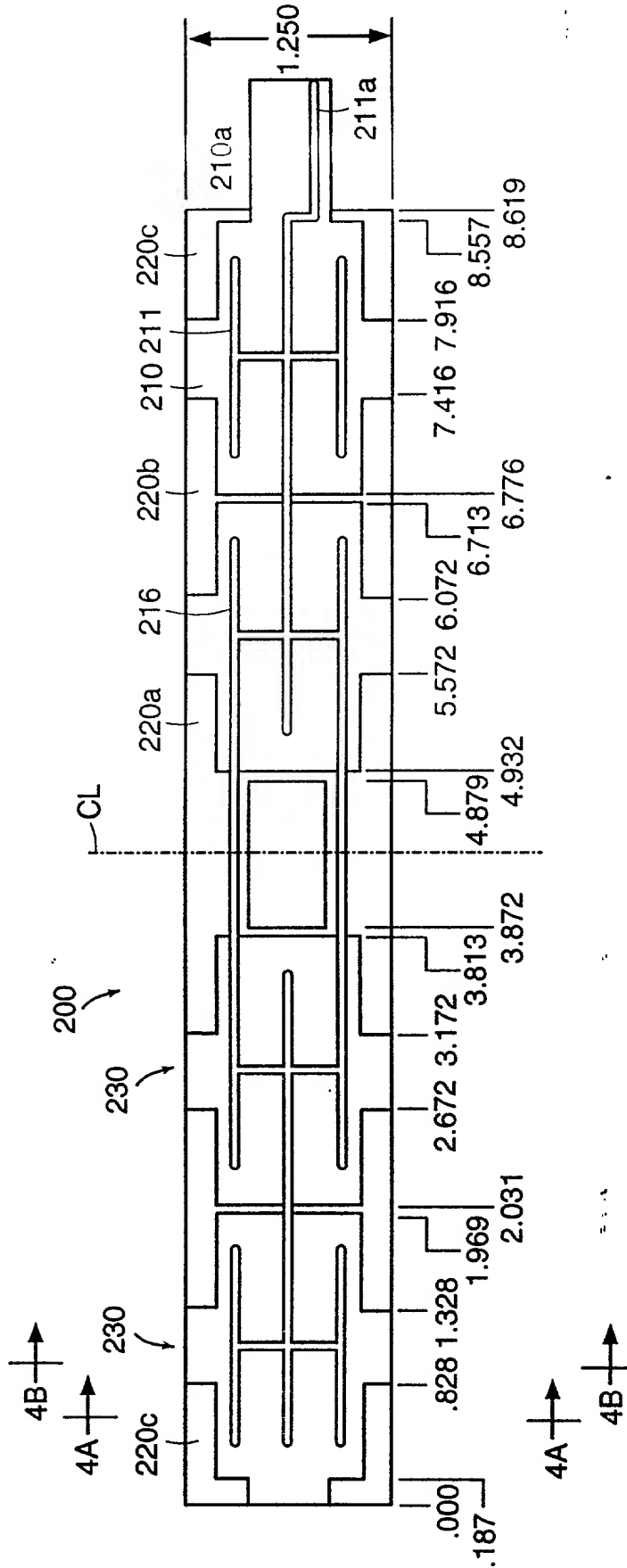
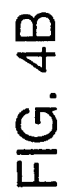
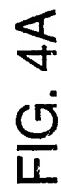


FIG. 3



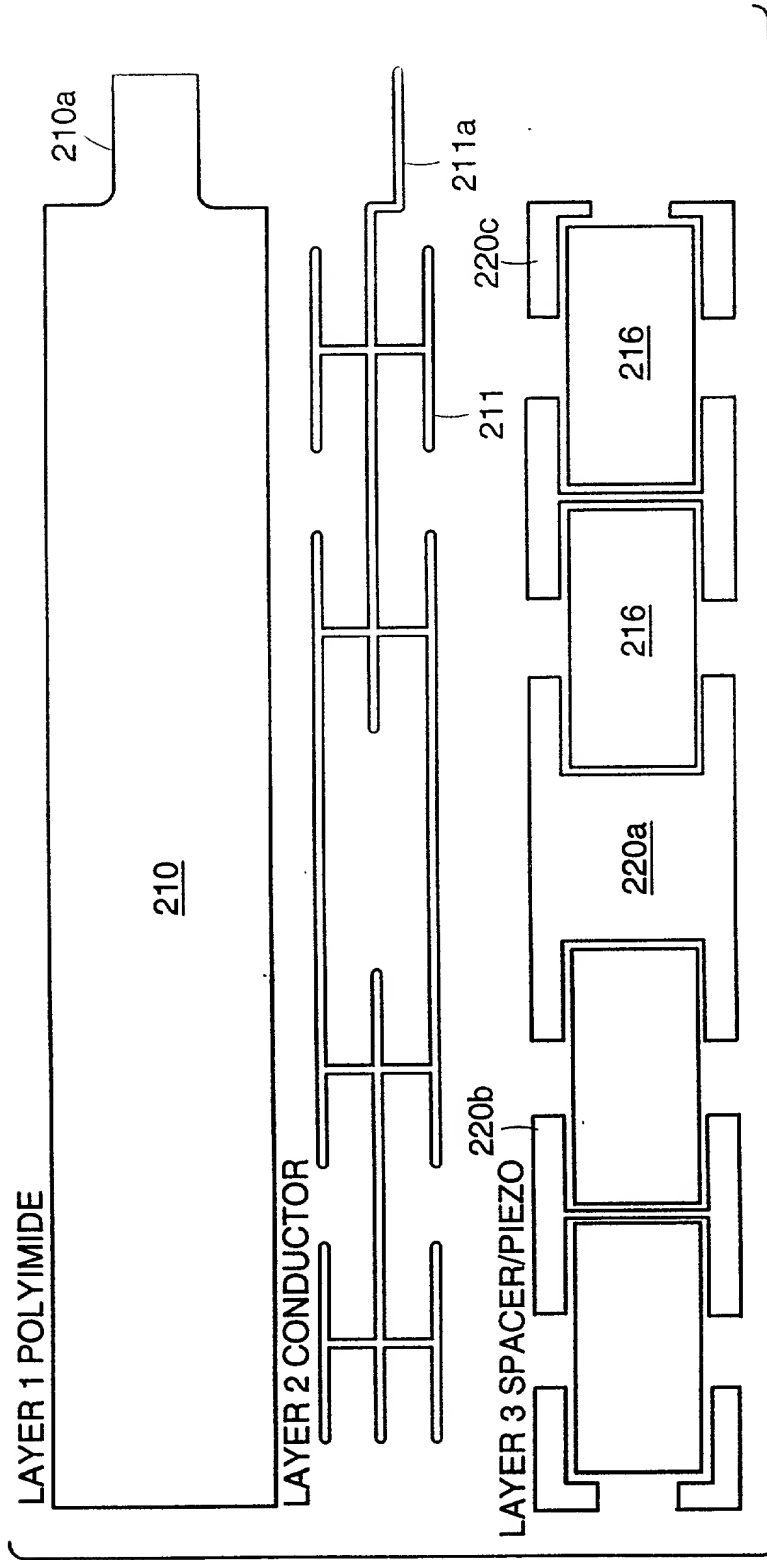


FIG. 5

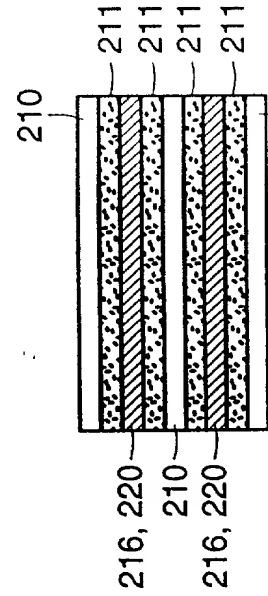


FIG. 5A

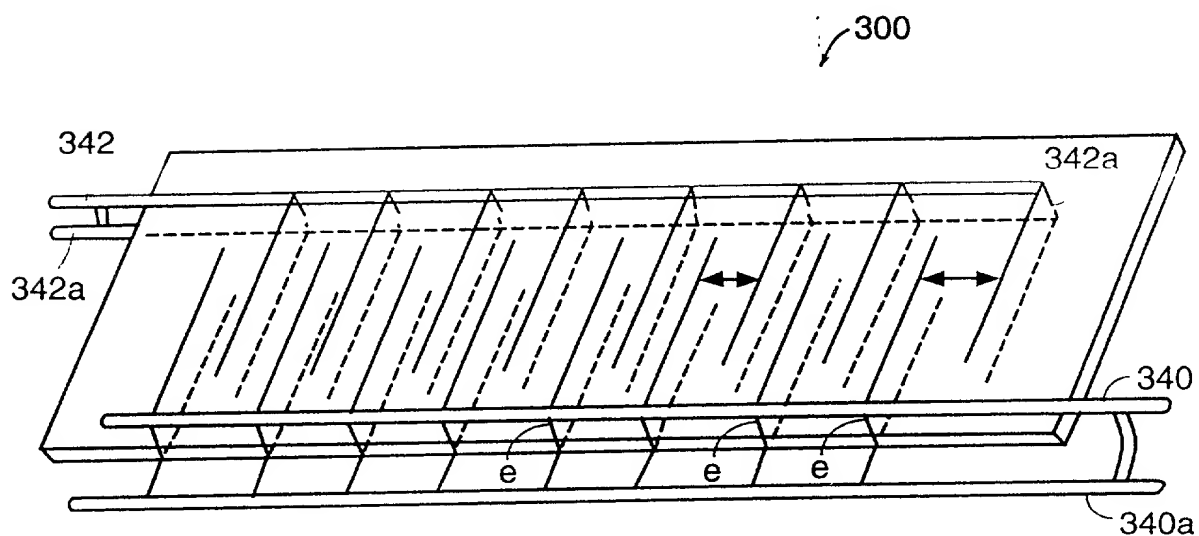


FIG. 6

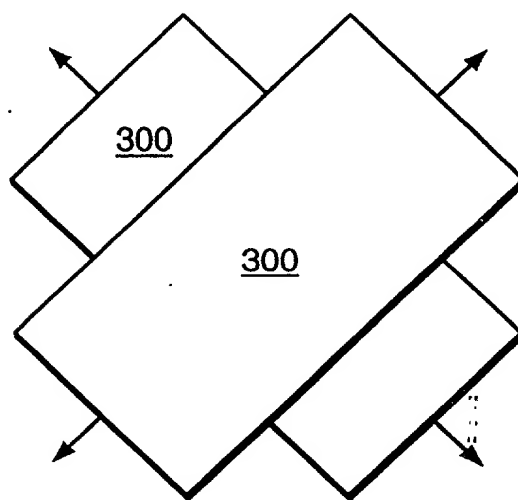


FIG. 7

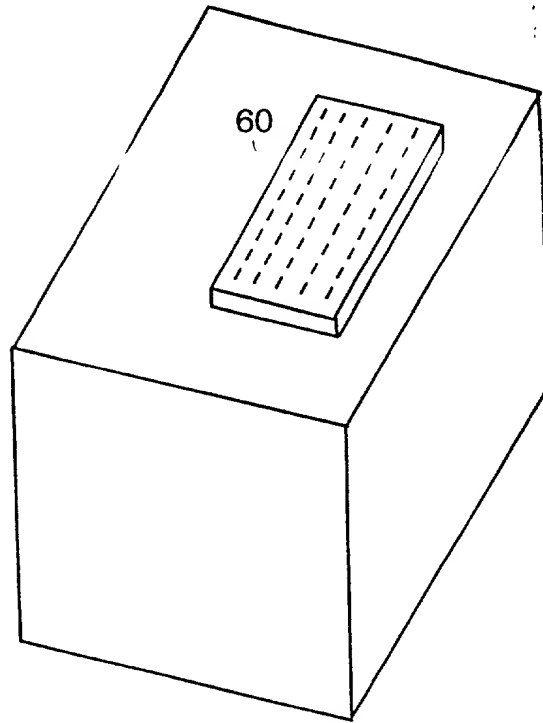


FIG. 8A

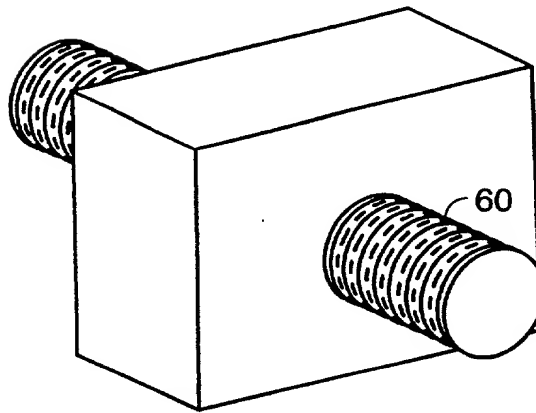


FIG. 8B



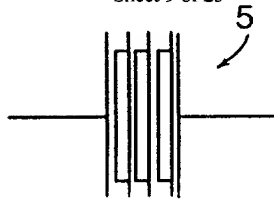


FIG. 9A

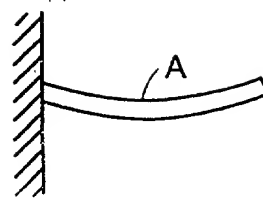


FIG. 9B



FIG. 9C

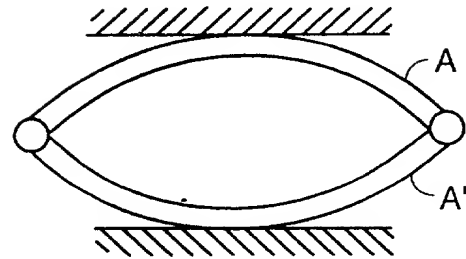


FIG. 9D

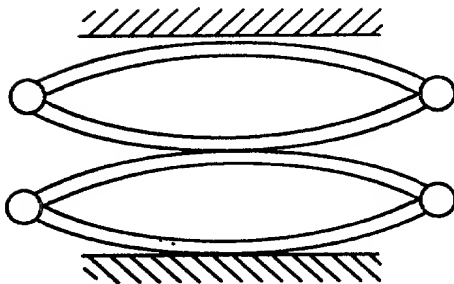


FIG. 9E

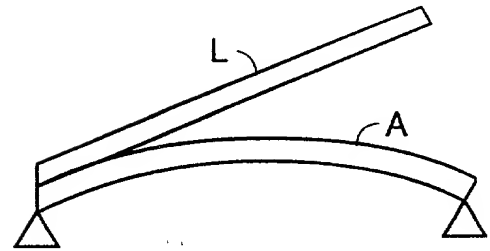


FIG. 9F

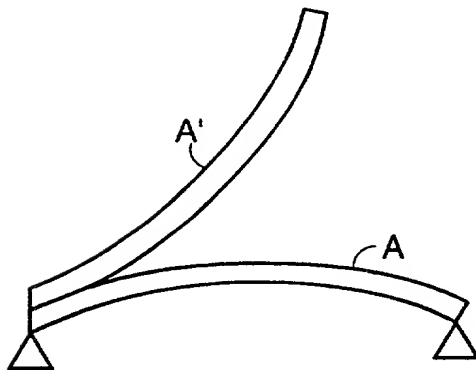


FIG. 9G

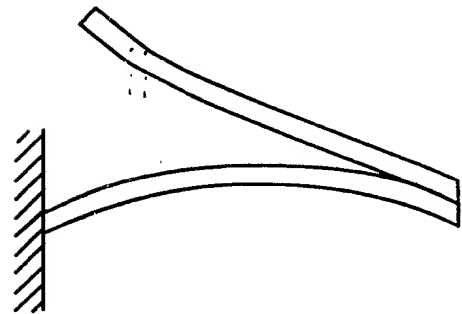


FIG. 9H

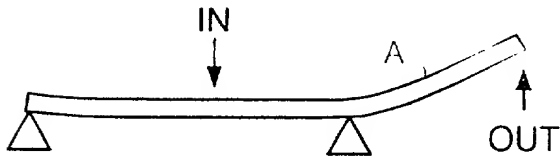


FIG. 9I

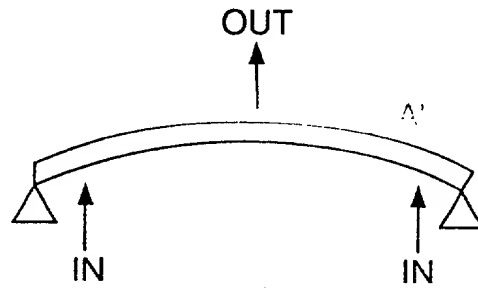


FIG. 9J

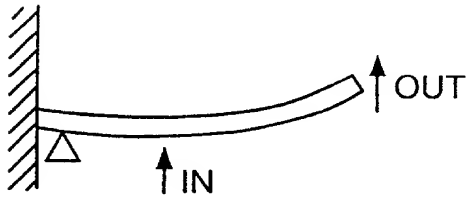


FIG. 9K

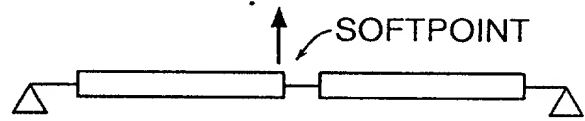


FIG. 9L

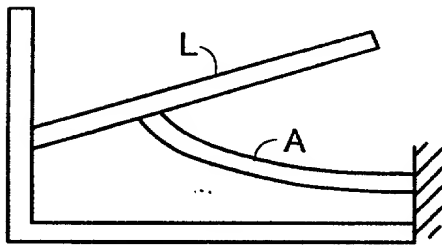


FIG. 9M

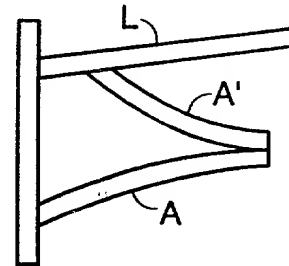


FIG. 9N

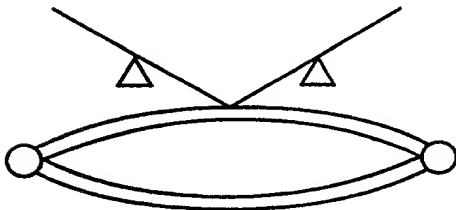


FIG. 9O

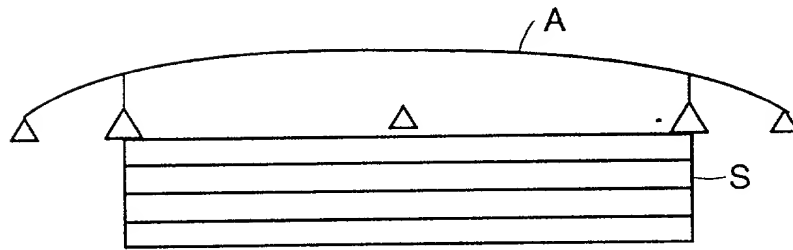


FIG. 9P

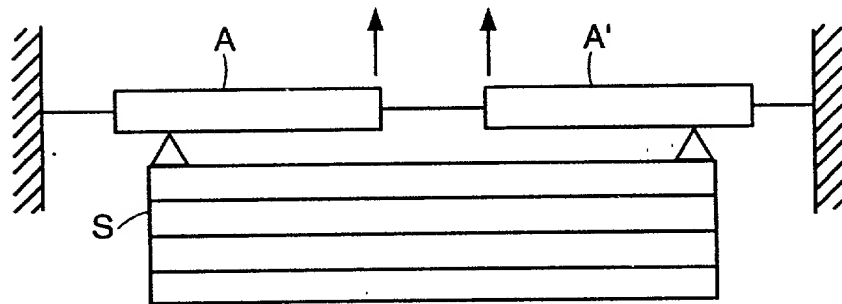


FIG. 9Q

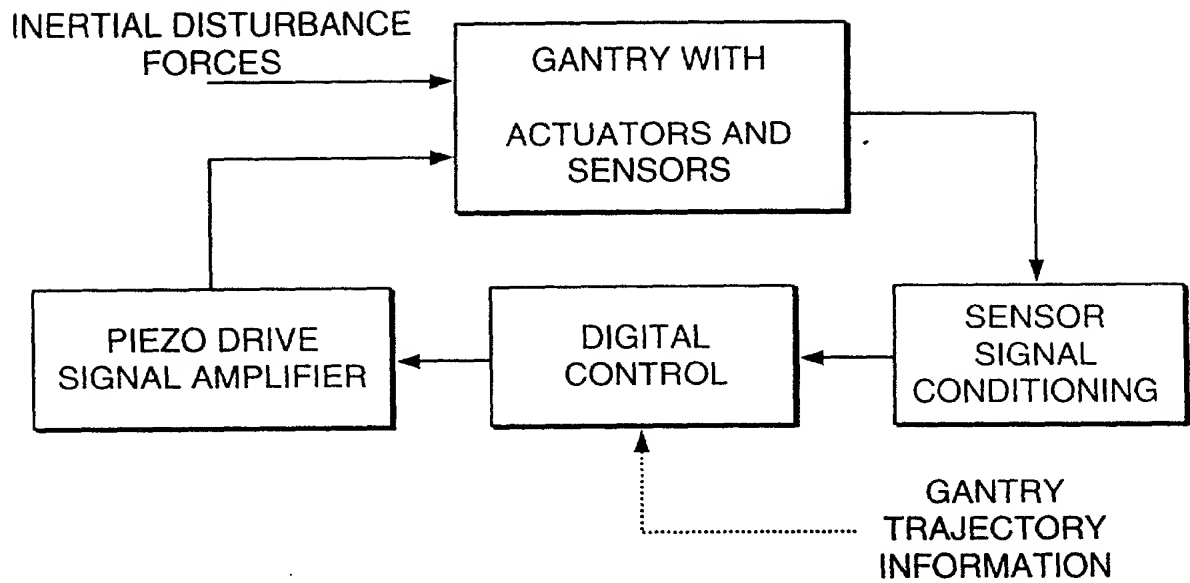


FIG. 10

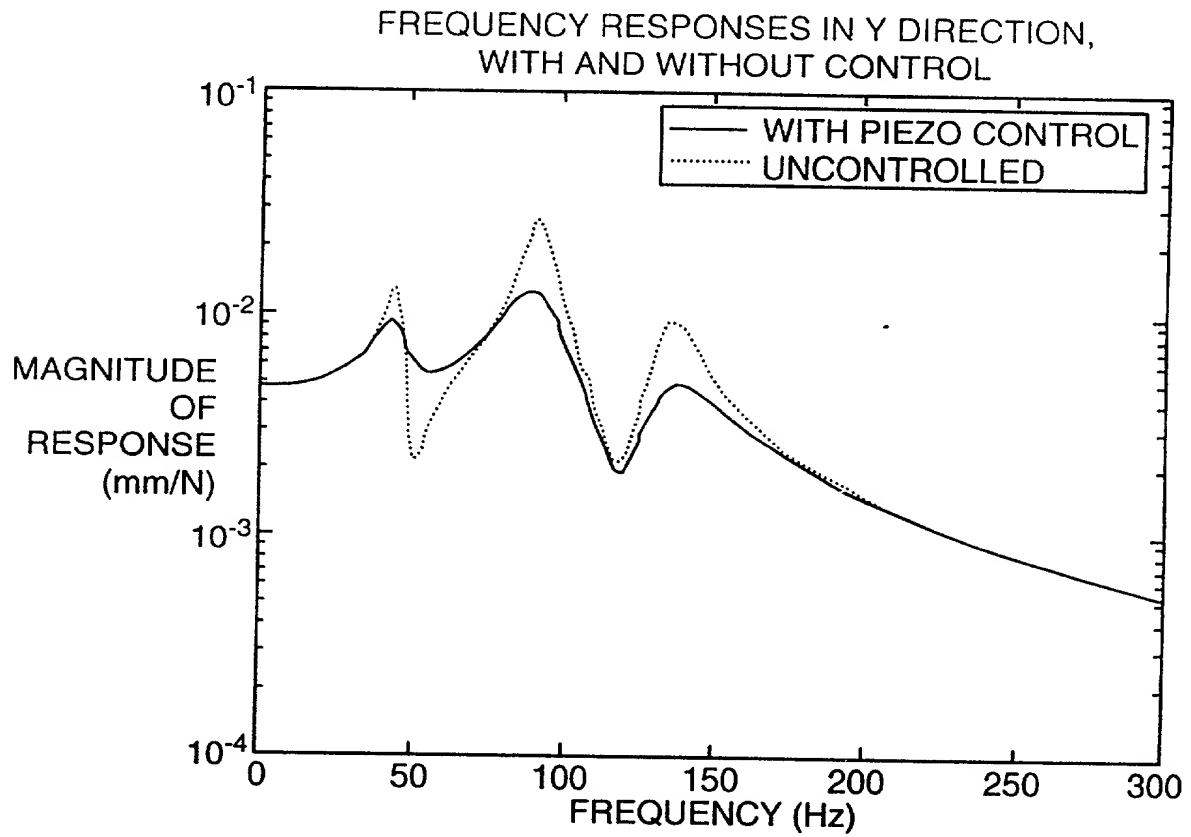


FIG. 11

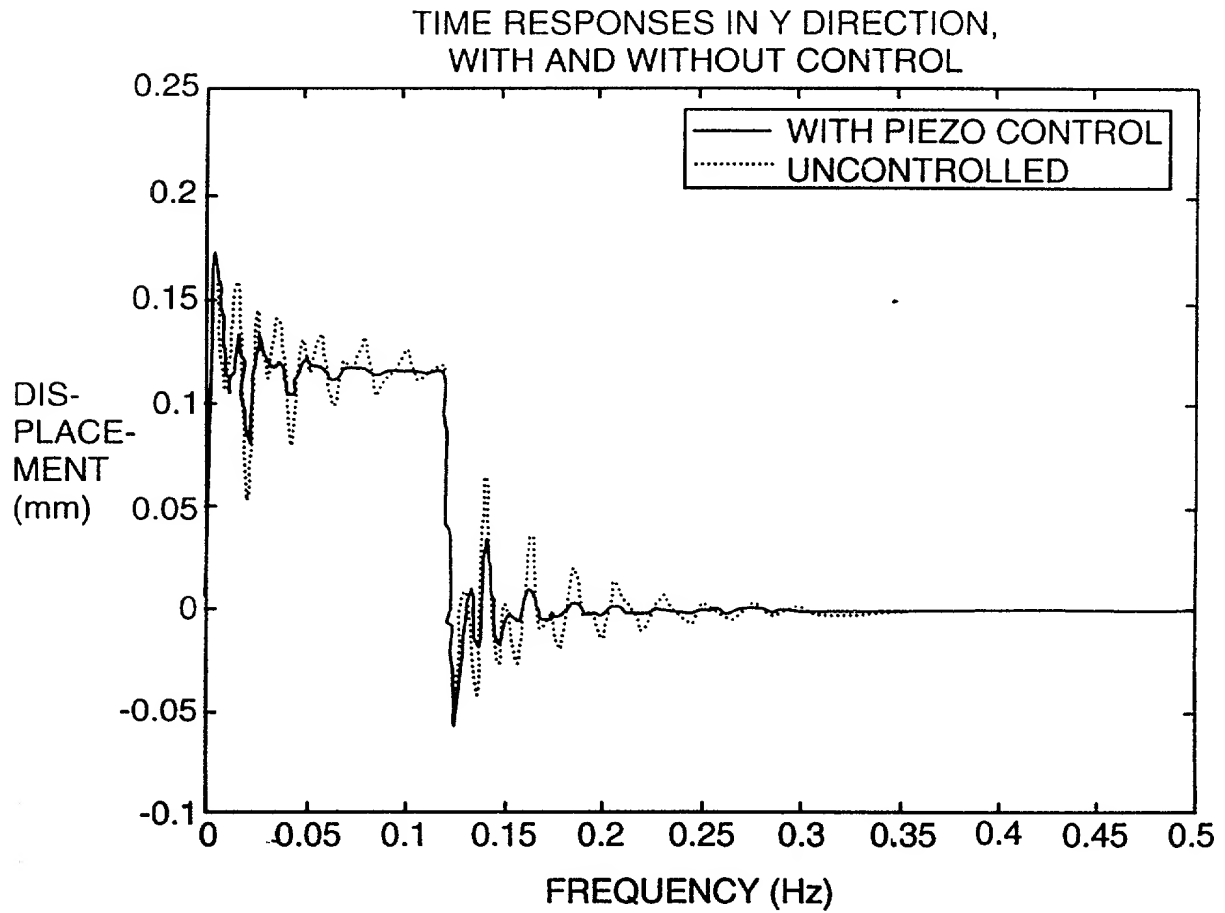


FIG. 12

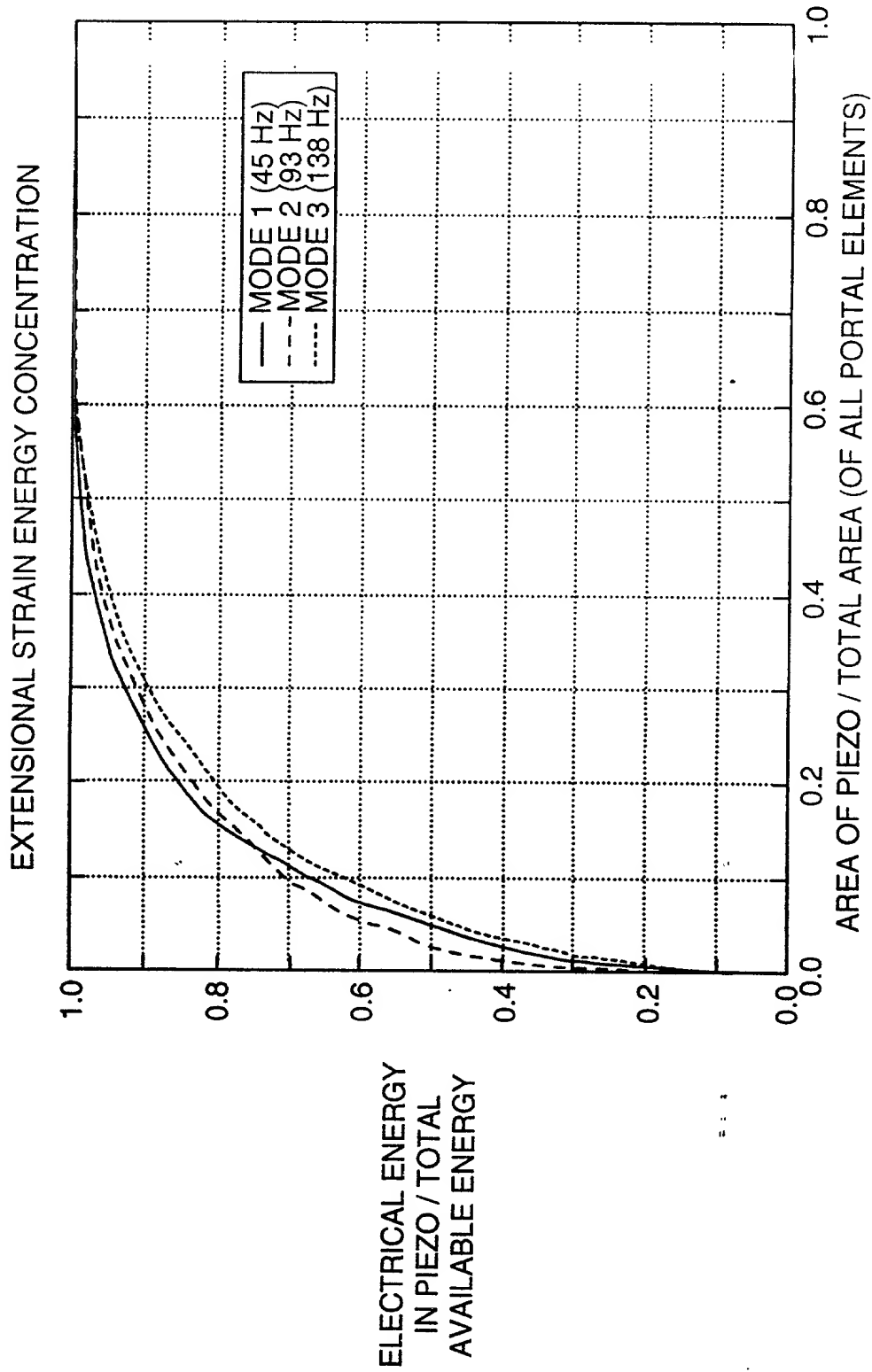


FIG. 13

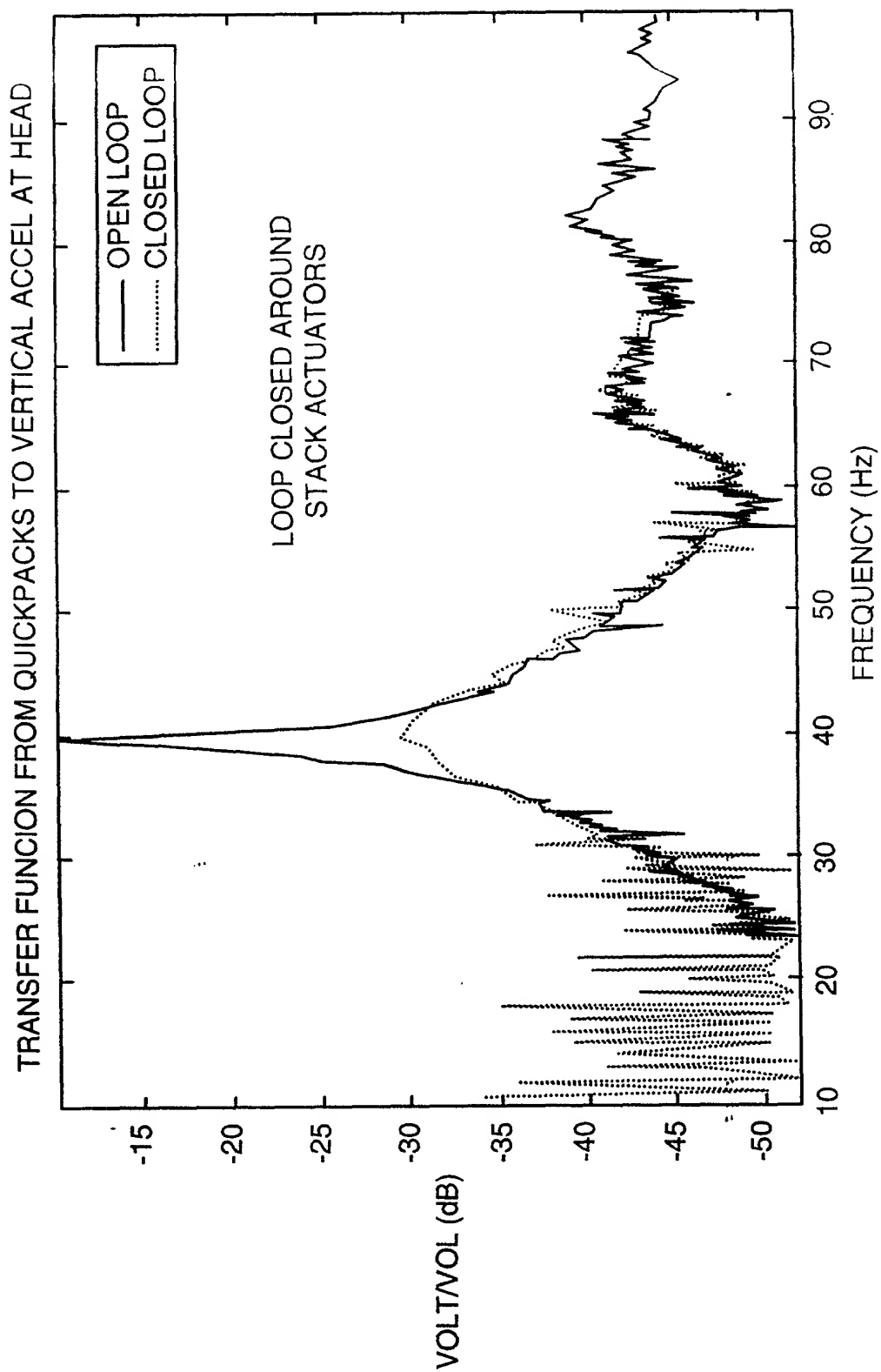


FIG. 14

1.06090" 02200360





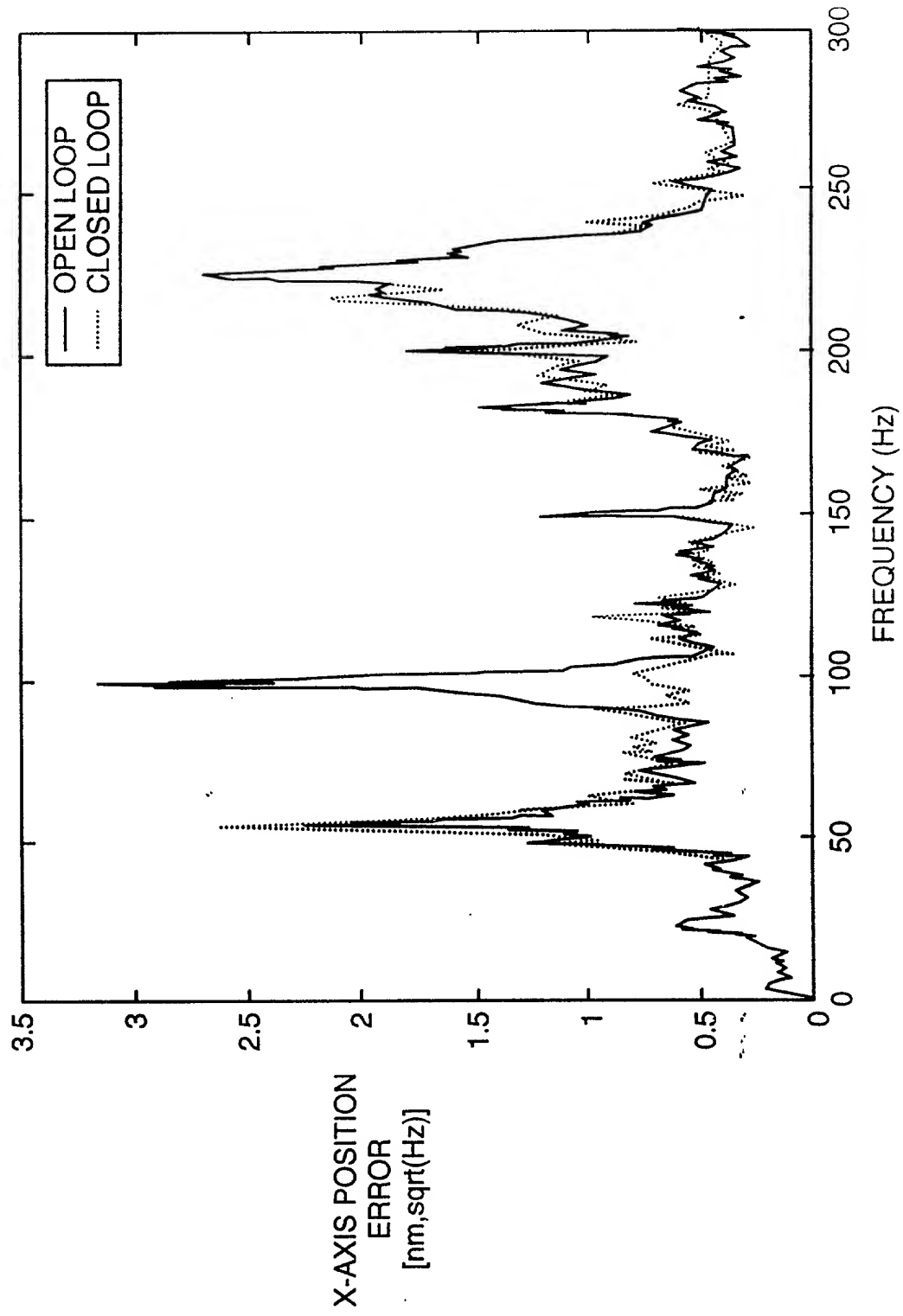


FIG. 16

FIG. 16 is a graph

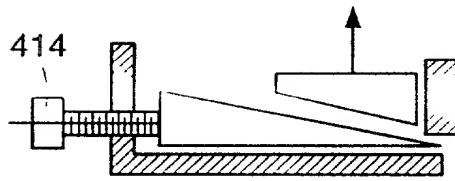


FIG. 17

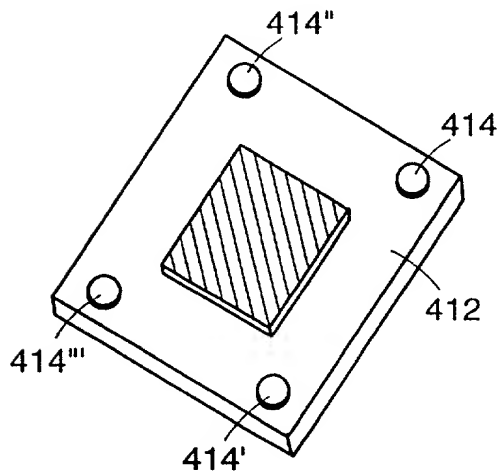


FIG. 18

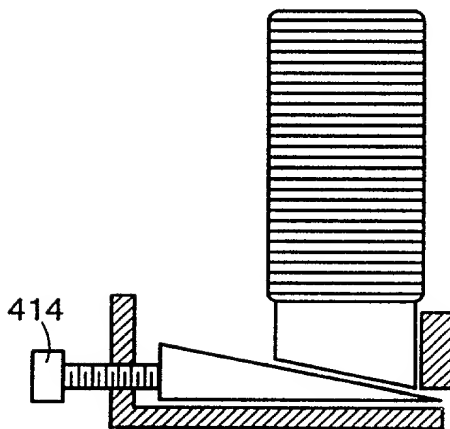


FIG. 19



FIG. 20

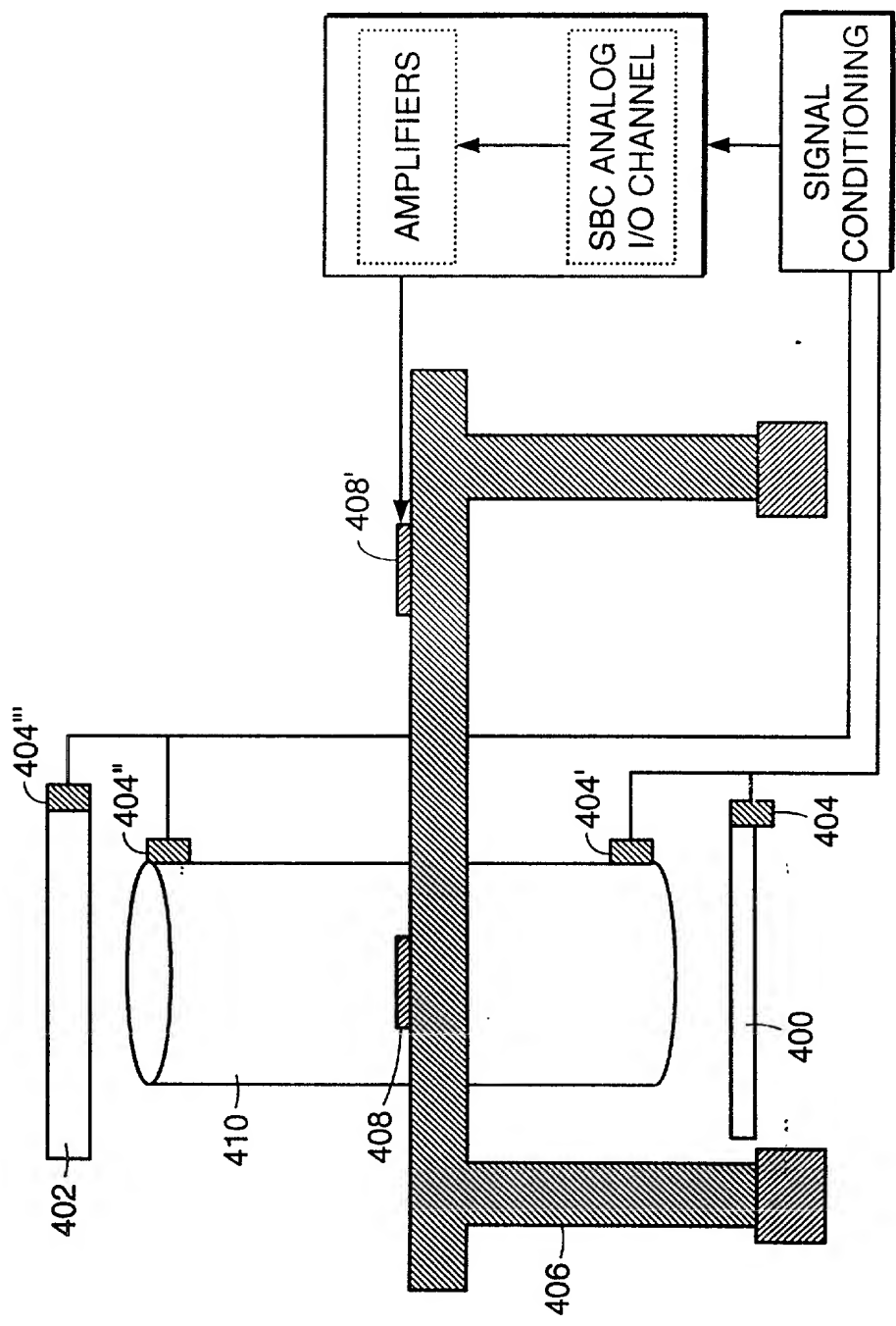
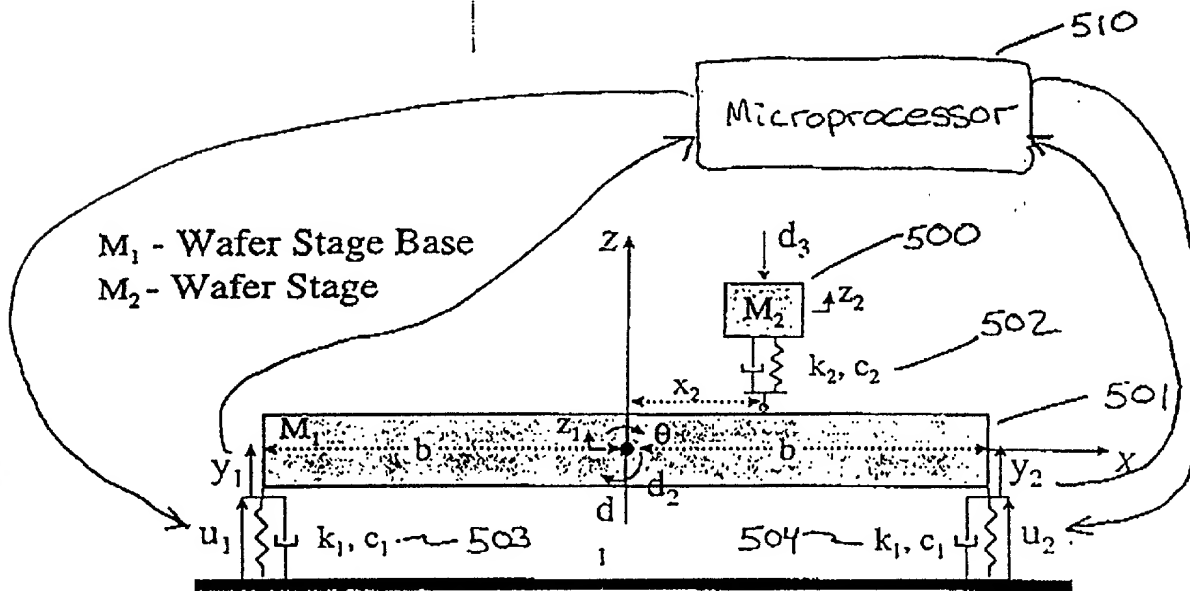


FIG. 21



- Inputs ( $u_i$ ): Voice Coil forces on base in Z
- Outputs ( $y_i$ ): Laser displacement measurements collocated with voice coil inputs
- Disturbances ( $d_i$ ): Z-force and  $\theta$  moment on base, Z force on stage

FIG. 22

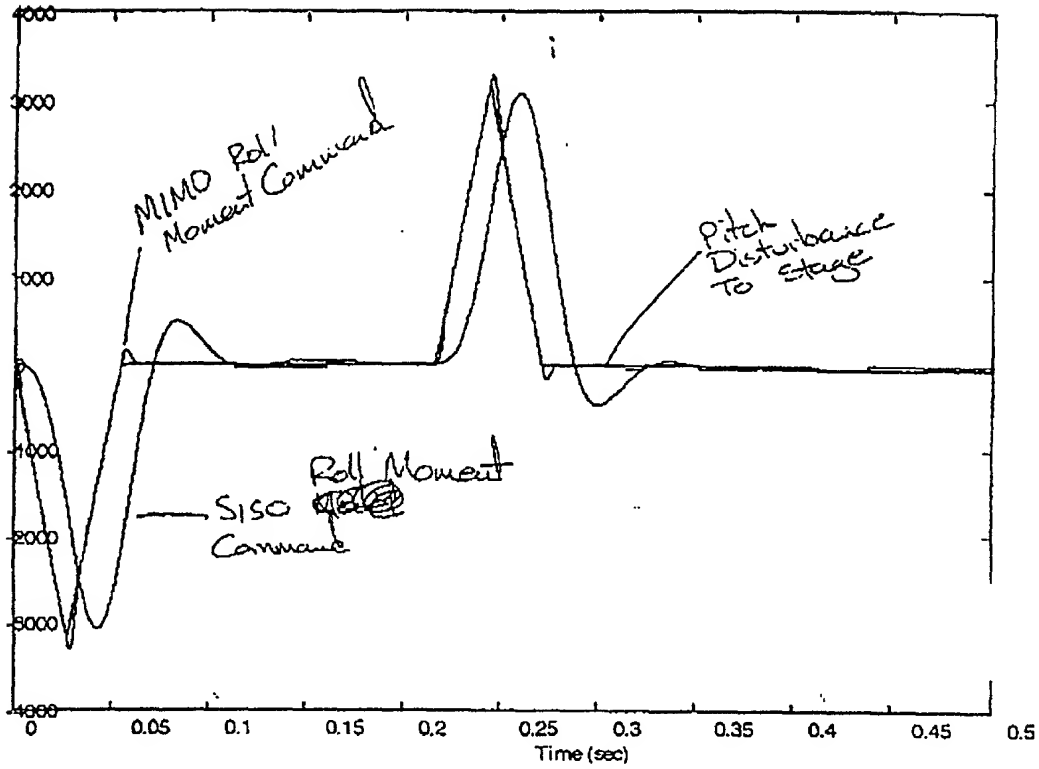


FIG. 23

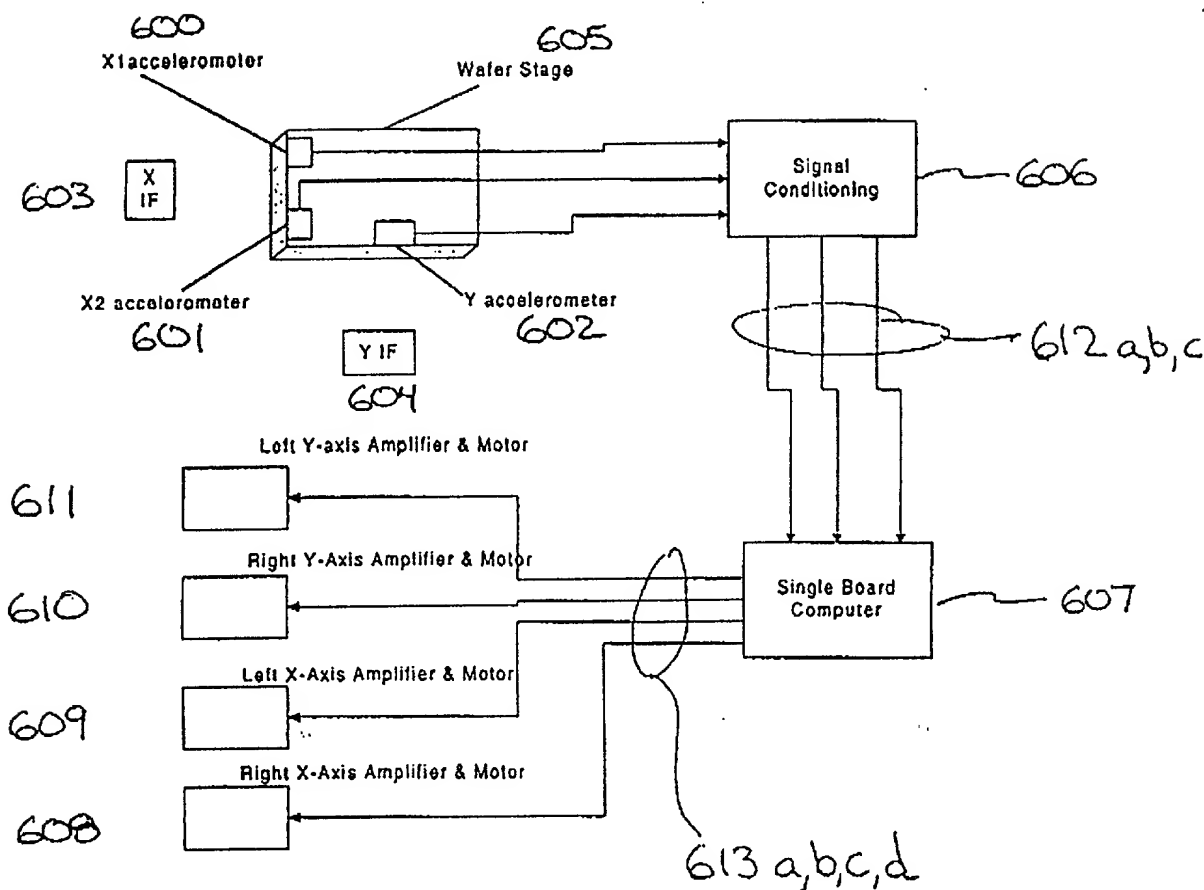


FIG. 24

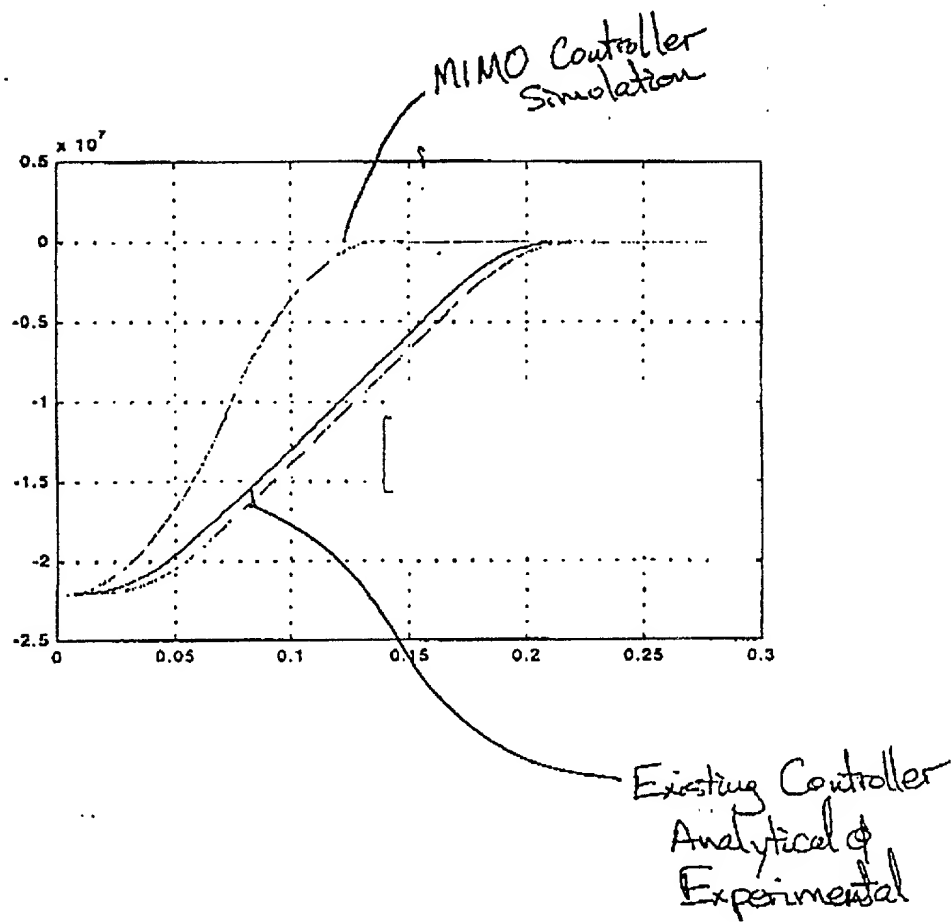


FIG. 25



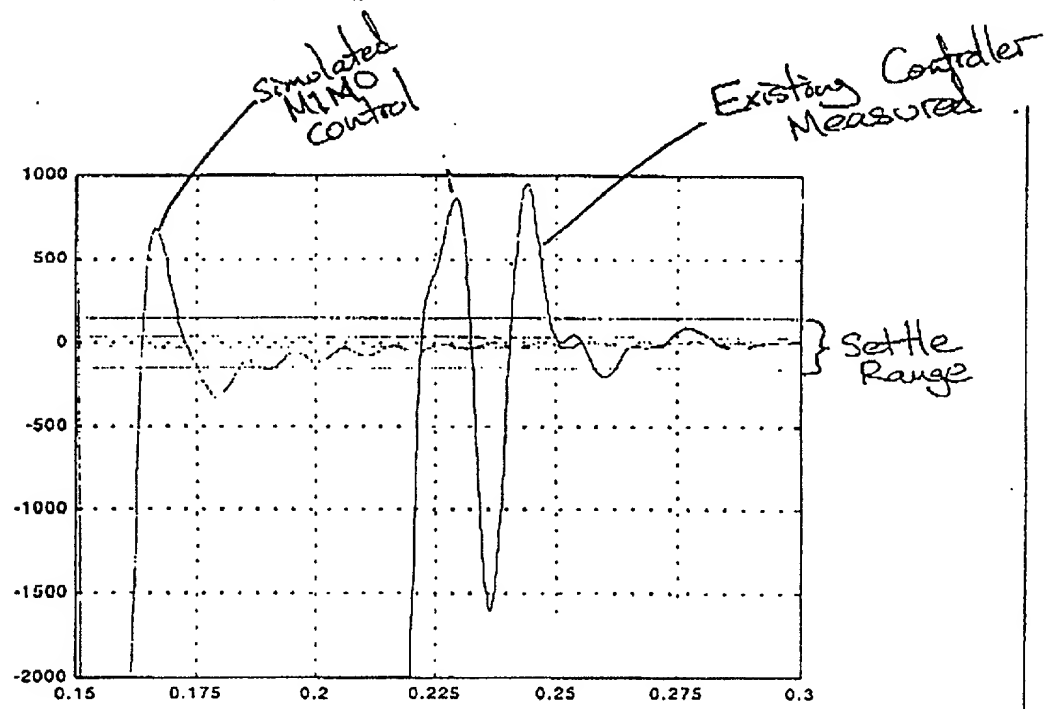


FIG. 26